

[54] LIQUID CRYSTAL DISPLAY DEVICE

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[*] Notice: The portion of the term of this patent subsequent to Dec. 3, 2008 has been disclaimed.

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[30] Foreign Application Priority Data

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359/87; 359/74; 345/88

[58] Field of Search 340/719, 718, 716, 765,
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[57] ABSTRACT

An LCD device having an improved contrast, able to be operated by a matrix drive, and having a large display area, comprises a pair of transparent first and second bases; picture element electrodes arranged on the first base; signal lines arranged adjacent to the picture element electrode; non-linear elements consisting of varistor particle layers forming bridges between the picture element electrodes and the signal lines; scanning electrodes arranged on the second base; and a liquid crystal material layer located between the picture element electrodes and the scanning electrodes the liquid crystal material being dispersed in a polymeric matrix to form, for example, a NCAP system.

20 Claims, 11 Drawing Sheets

